

16^c
Keinnerer

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1646

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/954,954

DATE: 03/13/98
TIME: 17:00:47

INPUT SET: S24139.raw

This Raw Listing contains the General
Information Section and up to the first 5 pages.

#2 LYL
04/15/96

1 SEQUENCE LISTING
2
3 (1) General Information
4
5 (i) APPLICANT: Summers, Neena
6 McWherter, Charles
7 Feng, Yiqing
8
9 (ii) TITLE OF THE INVENTION: Novel Erythropoietin Receptor Agonists
10
11 (iii) NUMBER OF SEQUENCES: 134
12
13 (iv) CORRESPONDENCE ADDRESS:
14 (A) ADDRESSEE: G. D. Searle & Co.
15 (B) STREET: P.O. Box 5110
16 (C) CITY: Chicago
17 (D) STATE: IL
18 (E) COUNTRY: U. S. A.
19 (F) ZIP: 60680
20
21 (v) COMPUTER READABLE FORM:
22 (A) MEDIUM TYPE: Diskette
23 (B) COMPUTER: IBM Compatible
24 (C) OPERATING SYSTEM: DOS
25 (D) SOFTWARE: FastSEQ for Windows Version 2.0
26
27 (vi) CURRENT APPLICATION DATA:
28 (A) APPLICATION NUMBER:
29 (B) FILING DATE: 21-OCT-1997
30 (C) CLASSIFICATION:
31
32 (vii) PRIOR APPLICATION DATA:
33 (A) APPLICATION NUMBER: 60/034,044
34 (B) FILING DATE: 25-OCT-1996
35
36
37
38 (viii) ATTORNEY/AGENT INFORMATION:
39 (A) NAME: Bennett, Dennis A
40 (B) REGISTRATION NUMBER: 34,547
41 (C) REFERENCE/DOCKET NUMBER: 2991/1
42
43 (ix) TELECOMMUNICATION INFORMATION:
44 (A) TELEPHONE: 314-737-6986
45 (B) TELEFAX: 314-737-6972
46 (C) TELEX:

ENTERED

**RAW SEQUENCE LISTING
PATENT APPLICATION US/08/954,954**DATE: 03/13/98
TIME: 17:00:48**INPUT SET: S24139.raw**

47

48

49 (2) INFORMATION FOR SEQ ID NO:1:

50

51 (i) SEQUENCE CHARACTERISTICS:

52 (A) LENGTH: 170 amino acids
53 (B) TYPE: amino acid
54 (C) STRANDEDNESS: single
55 (D) TOPOLOGY: linear

56

57 (ii) MOLECULE TYPE: None

58

59 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

60

61 Asn Ile Thr Thr Gly Cys Ala Glu His Cys Ser Leu Asn Glu Asn Ile
62 1 5 10 15
63 Thr Val Pro Asp Thr Lys Val Asn Phe Tyr Ala Trp Lys Arg Met Glu
64 20 25 30
65 Val Gly Gln Gln Ala Val Glu Val Trp Gln Gly Leu Ala Leu Leu Ser
66 35 40 45
67 Glu Ala Val Leu Arg Gly Gln Ala Leu Leu Val Asn Ser Ser Gln Pro
68 50 55 60
69 Trp Glu Pro Leu Gln Leu His Val Asp Lys Ala Val Ser Gly Leu Arg
70 65 70 75 80
71 Ser Leu Thr Thr Leu Leu Arg Ala Leu Gly Ala Gln Lys Glu Ala Ile
72 85 90 95
73 Ser Pro Pro Asp Ala Ala Ser Ala Ala Pro Leu Arg Thr Ile Thr Ala
74 100 105 110
75 Asp Thr Phe Arg Lys Leu Phe Arg Val Tyr Ser Asn Phe Leu Arg Gly
76 115 120 125
77 Lys Leu Lys Leu Tyr Thr Gly Glu Ala Cys Arg Thr Gly Asp Arg Gly
78 130 135 140
79 Gly Gly Ser Ala Pro Pro Arg Leu Ile Cys Asp Ser Arg Val Leu Glu
80 145 150 155 160
81 Arg Tyr Leu Leu Glu Ala Lys Glu Ala Glu
82 165 170
83

84

(2) INFORMATION FOR SEQ ID NO:2:

85

86 (i) SEQUENCE CHARACTERISTICS:

87 (A) LENGTH: 170 amino acids
88 (B) TYPE: amino acid
89 (C) STRANDEDNESS: single
90 (D) TOPOLOGY: linear

91

92 (ii) MOLECULE TYPE: None

93

94 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

95

96 Ile Thr Thr Gly Cys Ala Glu His Cys Ser Leu Asn Glu Asn Ile Thr
97 1 5 10 15
98 Val Pro Asp Thr Lys Val Asn Phe Tyr Ala Trp Lys Arg Met Glu Val
99 20 25 30

**RAW SEQUENCE LISTING
PATENT APPLICATION US/08/954,954**DATE: 03/13/98
TIME: 17:00:49**INPUT SET: S24I39.raw**

100 Gly Gln Gln Ala Val Glu Val Trp Gln Gly Leu Ala Leu Leu Ser Glu
101 35 40 45
102 Ala Val Leu Arg Gly Gln Ala Leu Leu Val Asn Ser Ser Gln Pro Trp
103 50 55 60
104 Glu Pro Leu Gln Leu His Val Asp Lys Ala Val Ser Gly Leu Arg Ser
105 65 70 75 80
106 Leu Thr Thr Leu Leu Arg Ala Leu Gly Ala Gln Lys Glu Ala Ile Ser
107 85 90 95
108 Pro Pro Asp Ala Ala Ser Ala Ala Pro Leu Arg Thr Ile Thr Ala Asp
109 100 105 110
110 Thr Phe Arg Lys Leu Phe Arg Val Tyr Ser Asn Phe Leu Arg Gly Lys
111 115 120 125
112 Leu Lys Leu Tyr Thr Gly Glu Ala Cys Arg Thr Gly Asp Arg Gly Gly
113 130 135 140
114 Gly Ser Ala Pro Pro Arg Leu Ile Cys Asp Ser Arg Val Leu Glu Arg
115 145 150 155 160
116 Tyr Leu Leu Glu Ala Lys Glu Ala Glu Asn
117 165 170
118
119 (2) INFORMATION FOR SEQ ID NO:3:
120
121 (i) SEQUENCE CHARACTERISTICS:
122 (A) LENGTH: 170 amino acids
123 (B) TYPE: amino acid
124 (C) STRANDEDNESS: single
125 (D) TOPOLOGY: linear
126
127 (ii) MOLECULE TYPE: None
128
129 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:
130
131 Thr Thr Gly Cys Ala Glu His Cys Ser Leu Asn Glu Asn Ile Thr Val
132 1 5 10 15
133 Pro Asp Thr Lys Val Asn Phe Tyr Ala Trp Lys Arg Met Glu Val Gly
134 20 25 30
135 Gln Gln Ala Val Glu Val Trp Gln Gly Leu Ala Leu Leu Ser Glu Ala
136 35 40 45
137 Val Leu Arg Gly Gln Ala Leu Leu Val Asn Ser Ser Gln Pro Trp Glu
138 50 55 60
139 Pro Leu Gln Leu His Val Asp Lys Ala Val Ser Gly Leu Arg Ser Leu
140 65 70 75 80
141 Thr Thr Leu Leu Arg Ala Leu Gly Ala Gln Lys Glu Ala Ile Ser Pro
142 85 90 95
143 Pro Asp Ala Ala Ser Ala Ala Pro Leu Arg Thr Ile Thr Ala Asp Thr
144 100 105 110
145 Phe Arg Lys Leu Phe Arg Val Tyr Ser Asn Phe Leu Arg Gly Lys Leu
146 115 120 125
147 Lys Leu Tyr Thr Gly Glu Ala Cys Arg Thr Gly Asp Arg Gly Gly Gly
148 130 135 140
149 Ser Ala Pro Pro Arg Leu Ile Cys Asp Ser Arg Val Leu Glu Arg Tyr
150 145 150 155 160
151 Leu Leu Glu Ala Lys Glu Ala Glu Asn Ile
152 165 170

**RAW SEQUENCE LISTING
PATENT APPLICATION US/08/954,954**DATE: 03/13/98
TIME: 17:00:50**INPUT SET: S24139.raw**

153
154 (2) INFORMATION FOR SEQ ID NO:4:
155

156 (i) SEQUENCE CHARACTERISTICS:
157 (A) LENGTH: 170 amino acids
158 (B) TYPE: amino acid
159 (C) STRANDEDNESS: single
160 (D) TOPOLOGY: linear

161
162 (ii) MOLECULE TYPE: None
163

164 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

165

166 Thr Gly Cys Ala Glu His Cys Ser Leu Asn Glu Asn Ile Thr Val Pro
167 1 5 10 15
168 Asp Thr Lys Val Asn Phe Tyr Ala Trp Lys Arg Met Glu Val Gly Gln
169 20 25 30
170 Gln Ala Val Glu Val Trp Gln Gly Leu Ala Leu Leu Ser Glu Ala Val
171 35 40 45
172 Leu Arg Gly Gln Ala Leu Leu Val Asn Ser Ser Gln Pro Trp Glu Pro
173 50 55 60
174 Leu Gln Leu His Val Asp Lys Ala Val Ser Gly Leu Arg Ser Leu Thr
175 65 70 75 80
176 Thr Leu Leu Arg Ala Leu Gly Ala Gln Lys Glu Ala Ile Ser Pro Pro
177 85 90 95
178 Asp Ala Ala Ser Ala Ala Pro Leu Arg Thr Ile Thr Ala Asp Thr Phe
179 100 105 110
180 Arg Lys Leu Phe Arg Val Tyr Ser Asn Phe Leu Arg Gly Lys Leu Lys
181 115 120 125
182 Leu Tyr Thr Gly Glu Ala Cys Arg Thr Gly Asp Arg Gly Gly Ser
183 130 135 140
184 Ala Pro Pro Arg Leu Ile Cys Asp Ser Arg Val Leu Glu Arg Tyr Leu
185 145 150 155 160
186 Leu Glu Ala Lys Glu Ala Glu Asn Ile Thr
187 165 170
188

189 (2) INFORMATION FOR SEQ ID NO:5:
190

191 (i) SEQUENCE CHARACTERISTICS:
192 (A) LENGTH: 170 amino acids
193 (B) TYPE: amino acid
194 (C) STRANDEDNESS: single
195 (D) TOPOLOGY: linear

196
197 (ii) MOLECULE TYPE: None
198

199 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

200

201 Gly Cys Ala Glu His Cys Ser Leu Asn Glu Asn Ile Thr Val Pro Asp
202 1 5 10 15
203 Thr Lys Val Asn Phe Tyr Ala Trp Lys Arg Met Glu Val Gly Gln Gln
204 20 25 30
205 Ala Val Glu Val Trp Gln Gly Leu Ala Leu Leu Ser Glu Ala Val Leu

**RAW SEQUENCE LISTING
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206	35	40	45	
207	Arg Gly Gln Ala Leu Leu Val Asn Ser Ser Gln Pro Trp Glu Pro Leu			
208	50	55	60	
209	Gln Leu His Val Asp Lys Ala Val Ser Gly Leu Arg Ser Leu Thr Thr			
210	65	70	75	80
211	Leu Leu Arg Ala Leu Gly Ala Gln Lys Glu Ala Ile Ser Pro Pro Asp			
212	85	90	95	
213	Ala Ala Ser Ala Ala Pro Leu Arg Thr Ile Thr Ala Asp Thr Phe Arg			
214	100	105	110	
215	Lys Leu Phe Arg Val Tyr Ser Asn Phe Leu Arg Gly Lys Leu Lys Leu			
216	115	120	125	
217	Tyr Thr Gly Glu Ala Cys Arg Thr Gly Asp Arg Gly Gly Ser Ala			
218	130	135	140	
219	Pro Pro Arg Leu Ile Cys Asp Ser Arg Val Leu Glu Arg Tyr Leu Leu			
220	145	150	155	160
221	Glu Ala Lys Glu Ala Glu Asn Ile Thr Thr			
222	165	170		

224 (2) INFORMATION FOR SEQ ID NO:6:

232 (ii) MOLECULE TYPE: None

234 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:

```

236 Cys Ala Glu His Cys Ser Leu Asn Glu Asn Ile Thr Val Pro Asp Thr
237   1           5          10          15
238 Lys Val Asn Phe Tyr Ala Trp Lys Arg Met Glu Val Gly Gln Gln Ala
239   20          25          30
240 Val Glu Val Trp Gln Gly Leu Ala Leu Leu Ser Glu Ala Val Leu Arg
241   35          40          45
242 Gly Gln Ala Leu Leu Val Asn Ser Ser Gln Pro Trp Glu Pro Leu Gln
243   50          55          60
244 Leu His Val Asp Lys Ala Val Ser Gly Leu Arg Ser Leu Thr Thr Leu
245   65          70          75          80
246 Leu Arg Ala Leu Gly Ala Gln Lys Glu Ala Ile Ser Pro Pro Asp Ala
247   85          90          95
248 Ala Ser Ala Ala Pro Leu Arg Thr Ile Thr Ala Asp Thr Phe Arg Lys
249   100         105         110
250 Leu Phe Arg Val Tyr Ser Asn Phe Leu Arg Gly Lys Leu Lys Leu Tyr
251   115         120         125
252 Thr Gly Glu Ala Cys Arg Thr Gly Asp Arg Gly Gly Gly Ser Ala Pro
253   130         135         140
254 Pro Arg Leu Ile Cys Asp Ser Arg Val Leu Glu Arg Tyr Leu Leu Glu
255   145         150         155          160
256 Ala Lys Glu Ala Glu Asn Ile Thr Thr Gly
257   165         170
258

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SEQUENCE VERIFICATION REPORT
PATENT APPLICATION **US/08/954,954**

DATE: 03/13/98
TIME: 17:00:52

INPUT SET: S24139.raw

Line

Error

Original Text